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Compositions containing mixtures of N-acylamino acid esters derived from a protein hydrolysate, especially silk, and a multifunctional acylating agent useful for the treatment of skin, nails, hair and scalp for cosmetic or hygiene purposes

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Patent Family: 5 patents, 24 countries

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1072251	A1	20010131	EP 2000113911	A	20000630	200118	B
FR 2796550	**A1**	**20010126**	**FR 19999574**	**A**	**19990721**	**200118**	**E**
EP 1072251	B1	20030409	EP 2000113911	A	20000630	200325	E
DE 60002014	E	20030515	DE 60002014	A	20000630	200340	E
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ES 2195823	T3	20031216	EP 2000113911	A	20000630	200413	E

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Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 1072251	A1	FR	17	1		
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
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Alerting Abstract EP A1

NOVELTY - Cosmetic and dermatological compositions containing mixtures of N-acylamino acid esters are new.

DESCRIPTION - The N-acylamino acid esters are derived from a mixture of amino acids from animal or vegetable protein hydrolysis, enriched artificially with one or more individual amino acids, and acylated with and one or more binary, ternary or quaternary acylating agents.
ACTIVITY - Dermatological; Antifungal.
The increase in skin hydration was tested on six volunteers suffering from a dry skin. An oil-in-water emulsion containing 0.5% methyl esters of N-palmitoyl silk/serine (40/60 molar ratio) was applied to one arm, the other serving as control. The results are shown in the figure indicating an increase in cutaneous hydration of around 60% in the first hour, falling to 50% and 40% after 3 and 6 hours.
MECHANISM OF ACTION - None given.
USE - Treatment of skin, nails, hair and scalp for cosmetic or hygiene purposes. The compositions penetrate the cutaneous barrier and improve mechanical properties and hydration. They may also be used in podology for the prevention and treatment of mycosis.

Technology Focus
PHARMACEUTICALS - Preferably the weight of each added amino acid is 5 - 60% of the weight of the hydrolysate. The use of amino acids derived from silk with 20 - 60% serine, 5 - 10% methionine, 20 - 60% leucine, or 10 - 30% threonine, is especially preferred. The acylating agent is preferably a 85/15 molar mixture of palmitoyl and oleyl chlorides, a 60/40 molar mixture of lauroyl and undecenoyl chlorides, or a 99/1 molar mixture of lauroyl and pentadecanoyl chlorides.

I. Original Publication Data by Authority

Original Abstracts:
La presente invention concerne des esters de N-acylaminoacides obtenus par N-acylation ou N-polyacylation d'acides amines issus de proteines naturelles pouvant etre enrichis par un ou plusieurs acides amines specifiques.
L'invention trouve une application preferentielle dans des compositions cosmetiques, dermatologiques et pharmaceutiques.

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